Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of the Claims:

- 1. (Presently Amended) A computer system, comprising:
 - a processor comprising a cache, a first bus interface and a second bus interface; and
 - a controller to snoop the cache via the first bus interface during a first mode of operation and to snoop the cache via the second bus interface during a second mode of operation, the second mode of operation being a lower power mode than the first mode of operation, and the first bus interface to be powered down during the second mode of operation, wherein the first bus interface is coupled to the controller via a first bus, the first bus is a parallel bus, and the second bus is a serial bus having a single data line, the first bus being wider than the second bus, the first bus to consume more power during the first mode of operation than the second bus consumes during the second mode of operation; and

a main memory and a peripheral device, the peripheral device to request an access of the main memory via the controller.

- (Cancelled) 2. (Cancelled) 3. (Cancelled) 4. (Cancelled) 5. (Cancelled) 6. 7. (Original) The computer system of claim 1, further comprising a clock generator, the clock generator to provide a first clock signal to the first bus interface via a clock signal line coupled between the clock generator and the processor, the clock generator to further provide a second clock signal to the second bus interface via a clock signal line coupled between the clock generator and the controller.
- 8. (Original) The computer system of claim 7, wherein the processor further comprises a circuit to provide the first clock signal to the cache during the first mode of operation and to provide the second clock signal to the cache during the second mode of operation.

9.	(Original) The computer system of claim 8, wherein the processor further
	comprises a phase-locked loop, and the second clock signal is routed through
	the phase-locked loop before being provided to the cache during the second
	mode of operation.

- 10. (Cancelled)
- 11. (Original) The computer system of claim 1, wherein the second bus interface is coupled to the controller via a second bus, and the second bus includes a clock signal line for source-synchronous operation, a control line, and a data line.
- 12. (Cancelled)
- 13. (Presently Amended) A computer system, comprising:
 - a high power bus;
 - a low power bus that is narrower than the high power bus and includes a clock signal line for source-synchronous operation;

- a processor comprising a cache, a high power bus interface coupled to the high power bus and a low power bus interface coupled to the low power bus;
- a controller to communicate with the processor via the high power bus during a high power mode of operation and to communicate with the processor via the low power bus during a low power mode of operation, the high power bus is to be powered down during the low power mode of operation, wherein the first bus interface is coupled to the controller via a first bus, the first bus is a parallel bus, and the second bus is a serial bus having a single data line, the controller is to snoop a memory region of the processor via the high power bus during the high power mode of operation, and the controller is to snoop the memory region via the low power bus during the low power mode of operation;
- a main memory and a peripheral device, the peripheral device to request

 an access of the main memory via the controller; and
- a power supply to provide a lower voltage supply to the processor during the low power mode of operation than during the high power mode of operation.

14. (Cancelled)

15. (Cancelled) (Cancelled) 16. 17. (Original) The computer system of claim 16, further comprising a clock generator, the clock generator to provide a clock signal to the memory region via a first clock signal line coupled between the clock generator and the processor during the high power mode of operation, the clock generator to further provide a clock signal to the memory region via the clock signal line of the low power bus during the low power mode of operation. 18. (Original) The computer system of claim 13, wherein a clock signal is to be provided via the clock signal line by the controller. 19. (Cancelled) 20. (Cancelled) 21. (Presently Amended) An integrated circuit comprising: a high power bus interface through which a memory region may be snooped during a high power mode of operation; and

a low power bus interface through which the memory region may be snooped during a low power mode of operation, the high power bus interface is to be powered down during the low power mode of operation, and the high power bus interface supports a first bus, and the low power bus interface supports a second bus that is narrower than the first bus, the low power bus interface provides for source-synchronous operation and the high power bus interface lacks support for source-synchronous operation; and

a memory bus interface.

- 22. (Cancelled)
- 23. (Cancelled)
- 24. (Cancelled)
- 25. (Original) The integrated circuit of claim 21, further comprising a first phase-locked loop (PLL) to provide a clock signal to the memory region during the high power mode of operation, and a second PLL to provide a clock signal to the memory region during the low power mode of operation, the second PLL to receive a clock signal via the low power bus interface.

26. (Cancelled)

27. (Presently Amended) A method of accessing a cache comprising:

snooping a cache via a high power parallel bus during a high power mode of operation;

transitioning to a low power mode of operation, including powering

down the high power bus and flushing a cache; and

snooping the cache via a low power serial bus having a single data line

during a low power mode of operation, including providing a clock

signal to the cache via the low power bus.

- 28. (Cancelled)
- 29. (Cancelled)
- 30. (Cancelled)